

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111820\
 Data File : VN064719.D
 Acq On : 18 Nov 2020 20:12
 Operator : JC/MD
 Sample : L4783-19 40X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1D

Quant Time: Nov 19 01:38:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	213482	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	438301	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	466081	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	195318	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	207469	55.24	ug/l	0.00
Spiked Amount						
			Recovery	=	110.48%	
35) Dibromofluoromethane	7.55	113	128089	51.34	ug/l	0.00
Spiked Amount						
			Recovery	=	102.68%	
50) Toluene-d8	10.06	98	568032	50.10	ug/l	0.00
Spiked Amount						
			Recovery	=	100.20%	
62) 4-Bromofluorobenzene	12.37	95	232112	54.77	ug/l	0.00
Spiked Amount						
			Recovery	=	109.54%	

Target Compounds

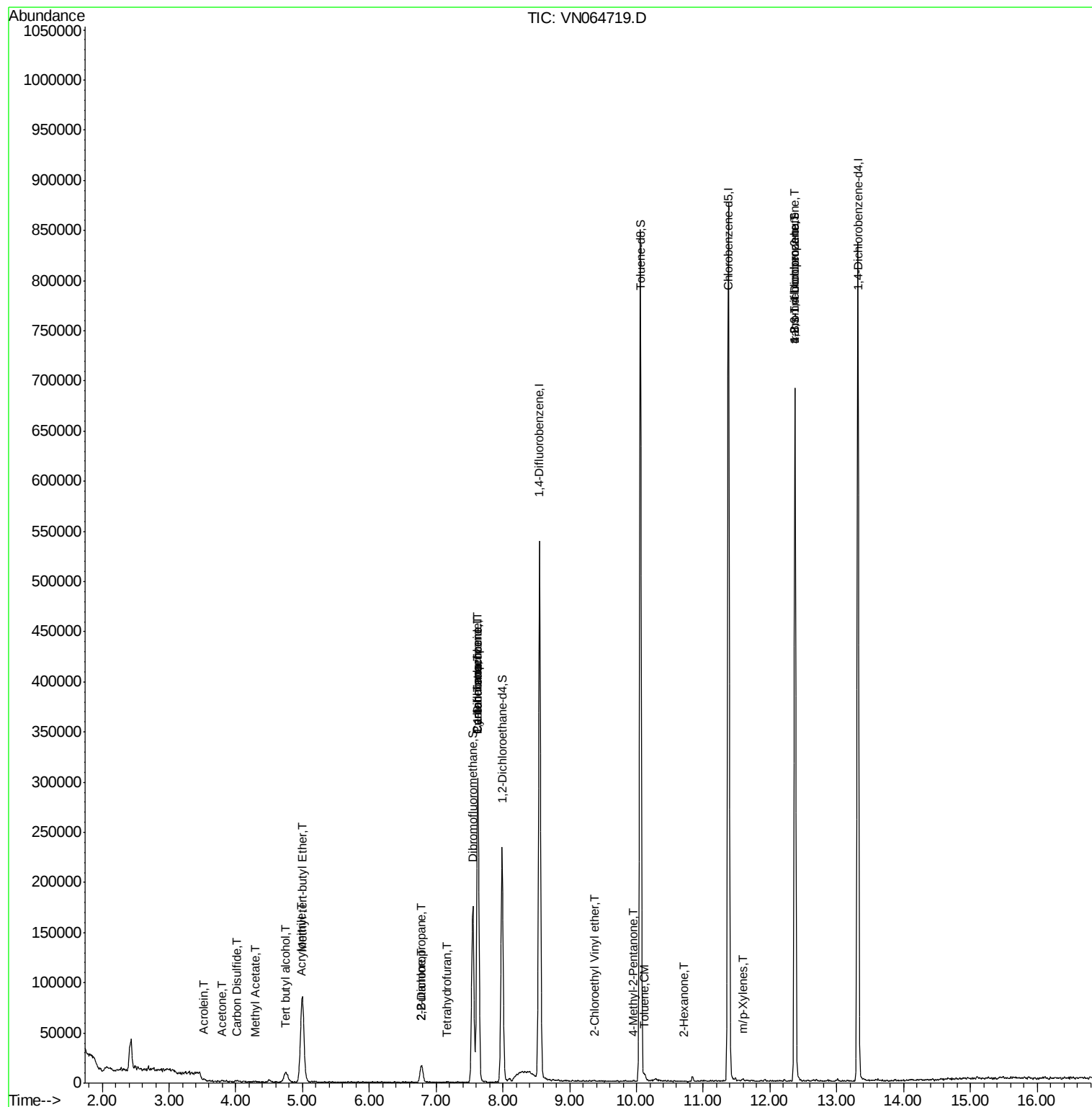
					Qvalue
11) Tert butyl alcohol	4.75	59	15758	43.250 ug/l	95
13) Acrolein	3.51	56	63	0.739 ug/l #	1
15) Acrylonitrile	4.97	53	981	0.917 ug/l #	16
16) Acetone	3.78	43	1081	6.230 ug/l #	87
17) Carbon Disulfide	4.00	76	529	0.210 ug/l #	75
18) Methyl Acetate	4.29	43	352	1.459 ug/l #	59
19) Methyl tert-butyl Ether	5.00	73	137972	17.965 ug/l	99
25) 2-Butanone	6.78	43	1019	0.710 ug/l	97
26) 2,2-Dichloropropane	6.77	77	968	0.209 ug/l #	55
29) Tetrahydrofuran	7.16	42	257	0.265 ug/l #	35
31) Cyclohexane	7.63	56	6036	1.487 ug/l #	13
36) 1,1-Dichloropropene	7.62	75	20700	4.591 ug/l #	49
38) Carbon Tetrachloride	7.62	117	25151	5.248 ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	746	6.294 ug/l #	39
52) Toluene	10.13	92	2418	0.312 ug/l	92
58) 2-Chloroethyl Vinyl ether	9.37	63	33	13.283 ug/l #	49
59) 2-Hexanone	10.72	43	184	8.494 ug/l #	28
68) m/p-Xylenes	11.60	106	754	4.164 ug/l	90
76) 1,2,3-Trichloropropane	12.37	75	136132	32.347 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	136132	82.340 ug/l #	5

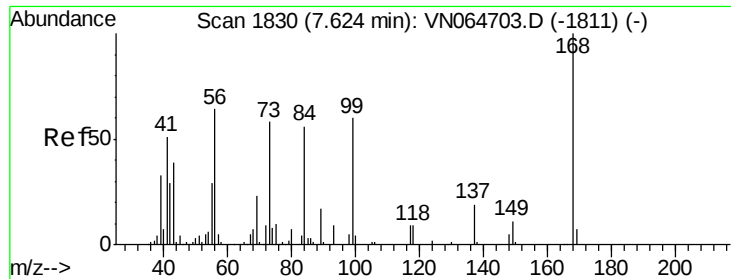
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 18 15:29:54 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

Instrument :

MSVOA_N

ClientSampleId :

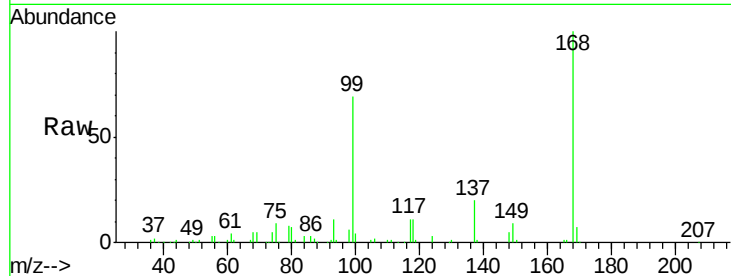
MW-1D

Tot Ion:168 Resp: 213482

Ion Ratio Lower Upper

168 100

99 69.0 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

80000

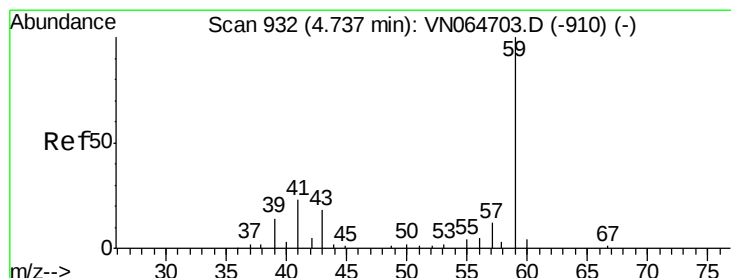
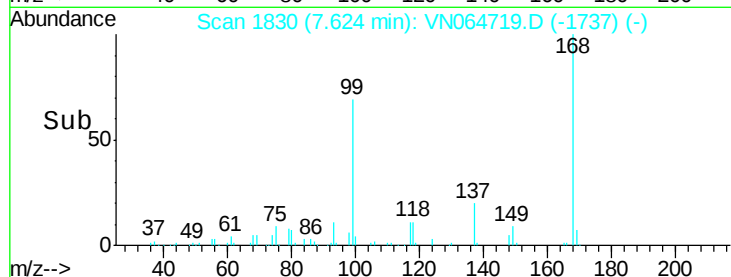
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 43.250 ug/l

RT: 4.75 min Scan# 935

Delta R.T. 0.01 min

Lab File: VN064719.D

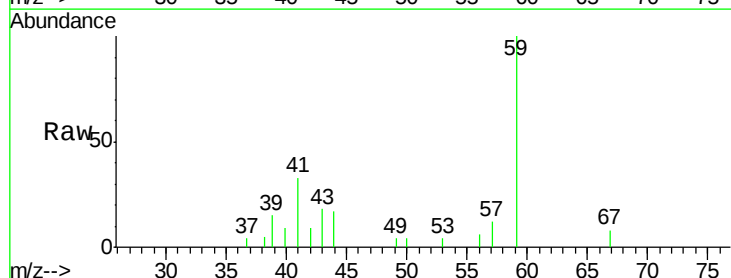
Acq: 18 Nov 2020 20:12

Tgt Ion: 59 Resp: 15758

Ion Ratio Lower Upper

59 100

57 9.4 9.1 13.7



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.75

5000

4000

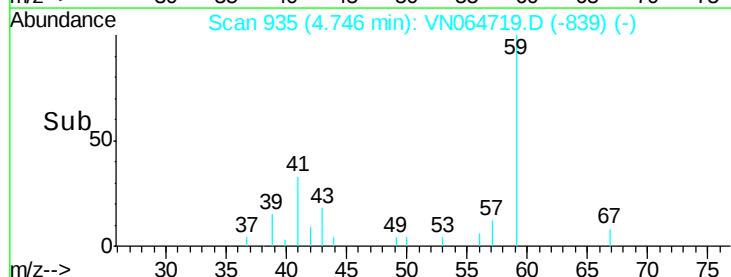
3000

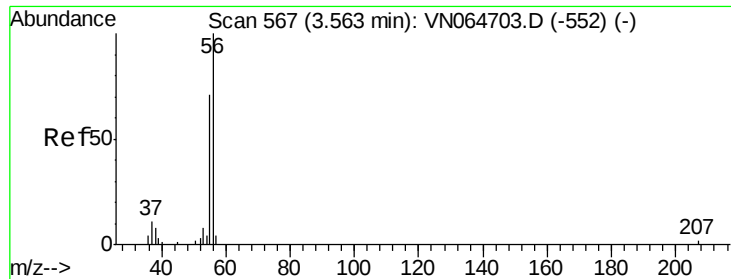
2000

1000

0

Time--> 4.60 4.70 4.80





#13

Acrolein

Concen: 0.739 ug/l

RT: 3.51 min Scan# 550

Delta R.T. -0.05 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

Instrument :

MSVOA_N

ClientSampled :

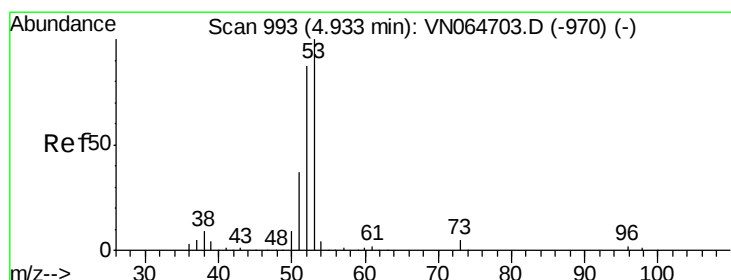
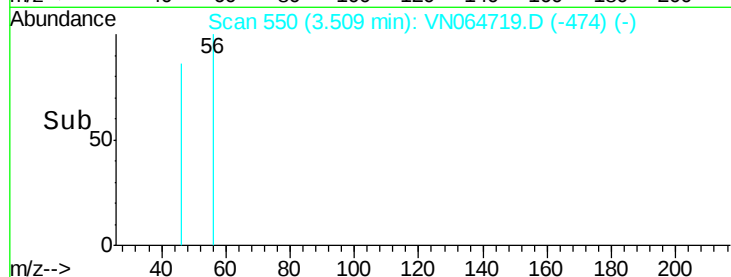
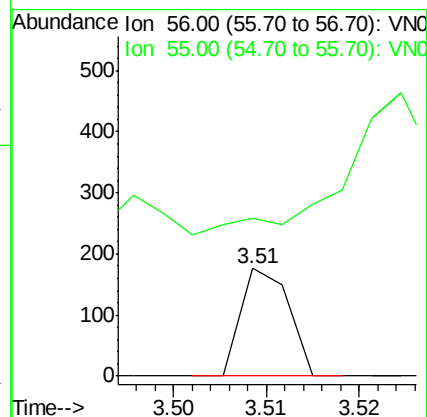
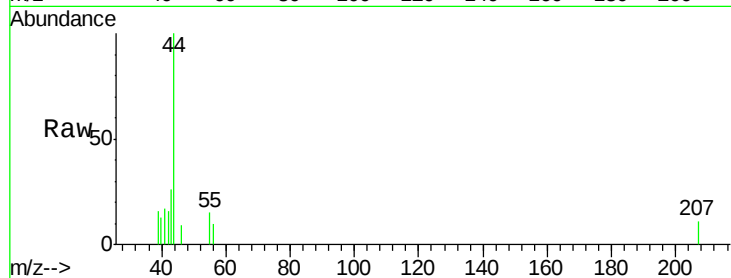
MW-1D

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 319.0 61.8 92.6#



#15

Acrylonitrile

Concen: 0.917 ug/l

RT: 4.97 min Scan# 1003

Delta R.T. 0.03 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

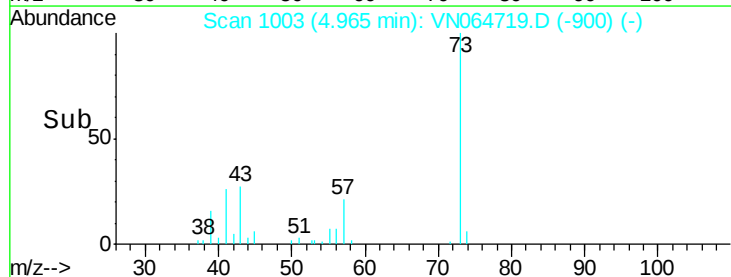
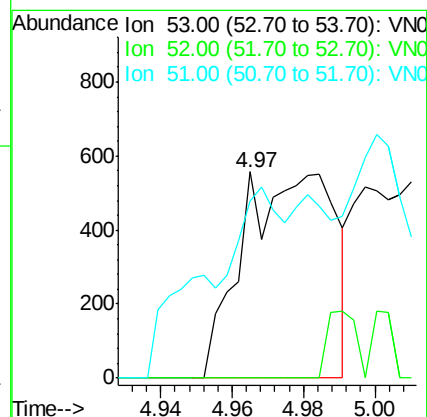
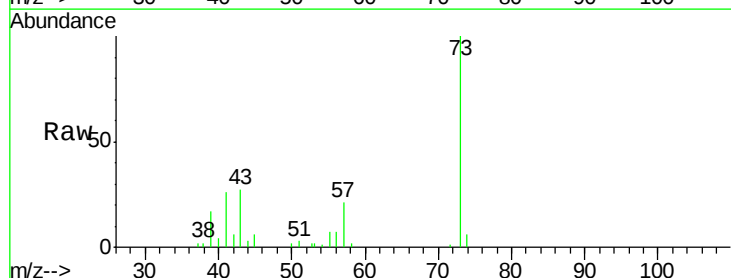
Tgt Ion: 53 Resp: 981

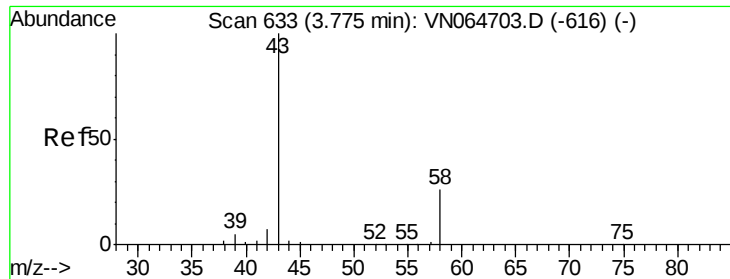
Ion Ratio Lower Upper

53 100

52 0.0 67.2 100.8#

51 77.7 31.0 46.6#





#16

Acetone

Concen: 6.230 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

Instrument :

MSVOA_N

ClientSampled :

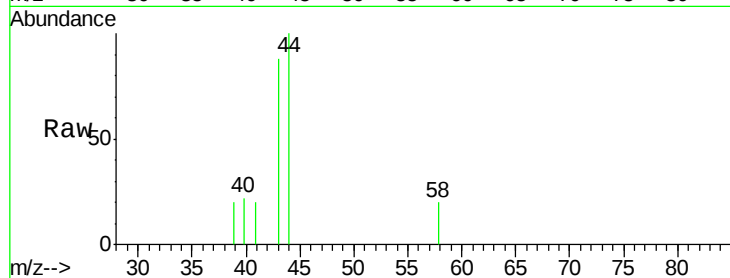
MW-1D

Tot Ion: 43 Resp: 1081

Ion Ratio Lower Upper

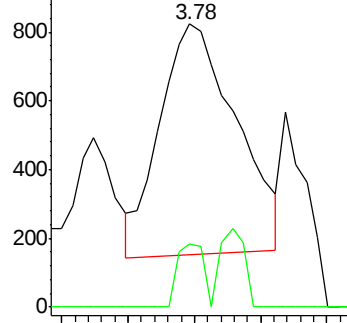
43 100

58 33.4 21.2 31.8#

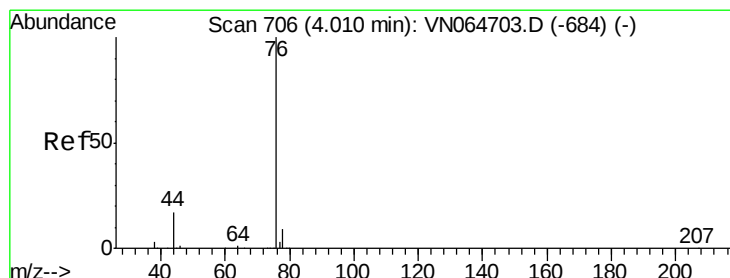
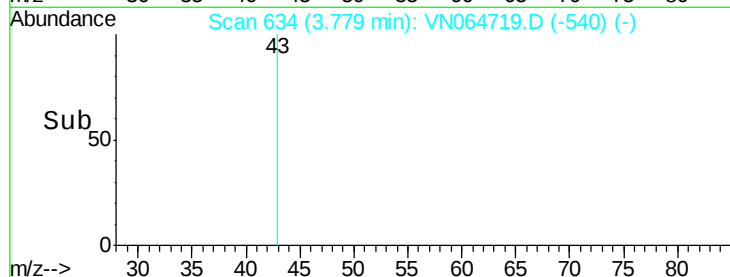


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time--> 3.74 3.76 3.78 3.80 3.82



#17

Carbon Disulfide

Concen: 0.210 ug/l

RT: 4.00 min Scan# 703

Delta R.T. -0.01 min

Lab File: VN064719.D

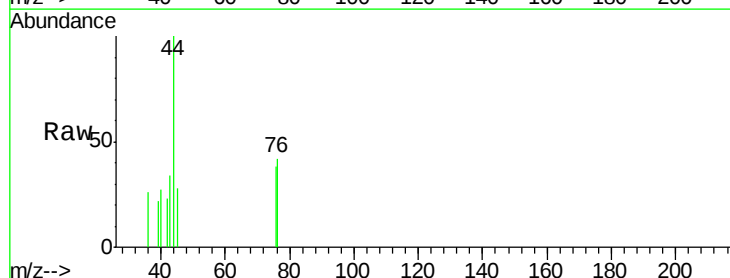
Acq: 18 Nov 2020 20:12

Tgt Ion: 76 Resp: 529

Ion Ratio Lower Upper

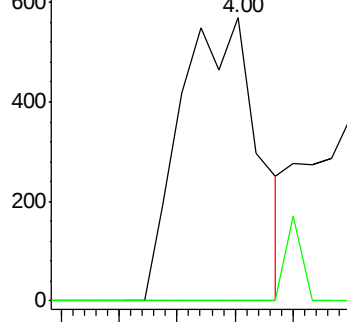
76 100

78 0.0 7.1 10.7#

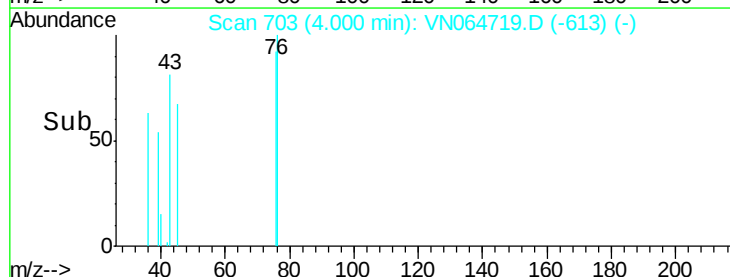


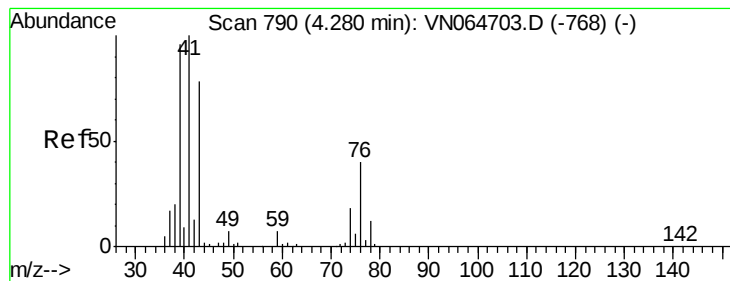
Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time--> 3.97 3.98 3.99 4.00 4.01





#18

Methyl Acetate

Concen: 1.459 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

Instrument :

MSVOA_N

ClientSampled :

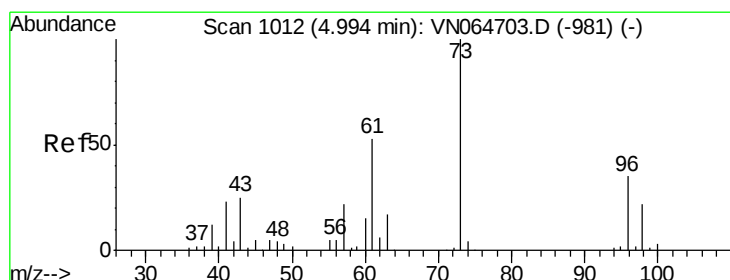
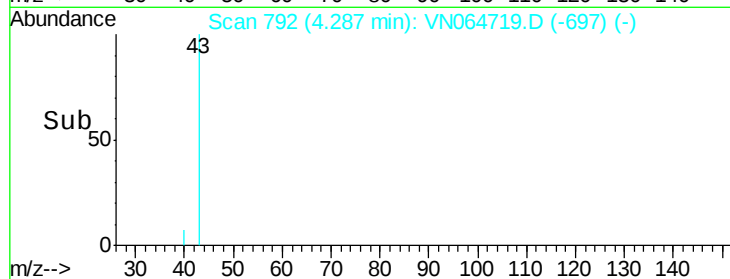
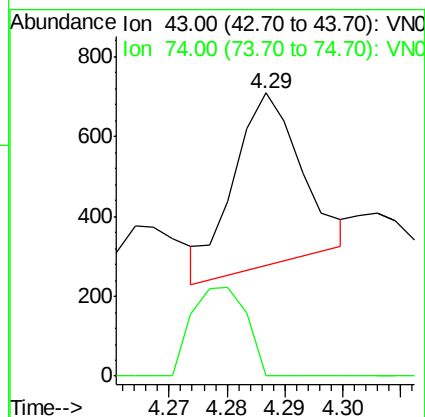
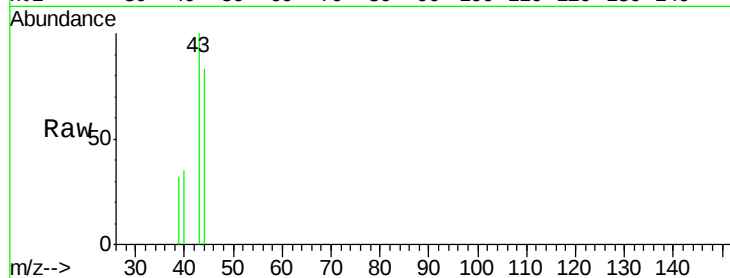
MW-1D

Tot Ion: 43 Resp: 352

Ion Ratio Lower Upper

43 100

74 41.5 17.6 26.4#



#19

Methyl tert-butyl Ether

Concen: 17.965 ug/l

RT: 5.00 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VN064719.D

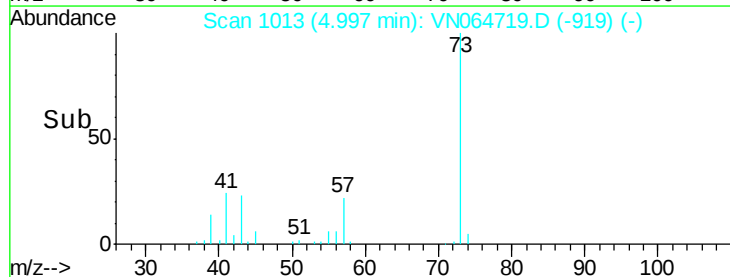
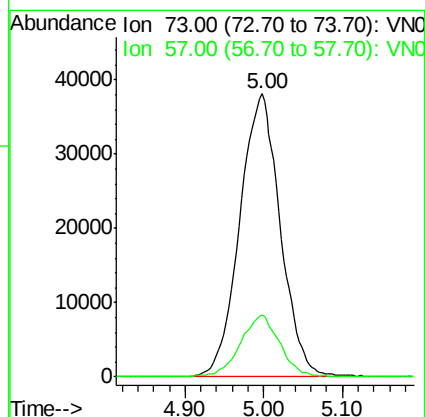
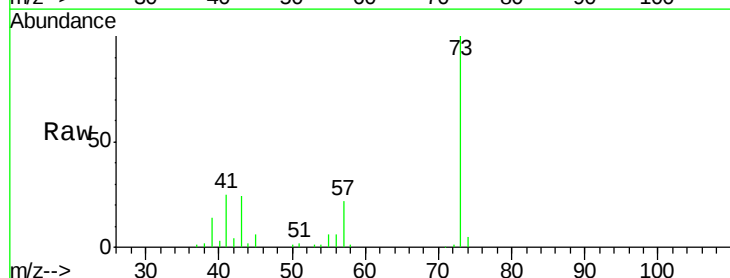
Acq: 18 Nov 2020 20:12

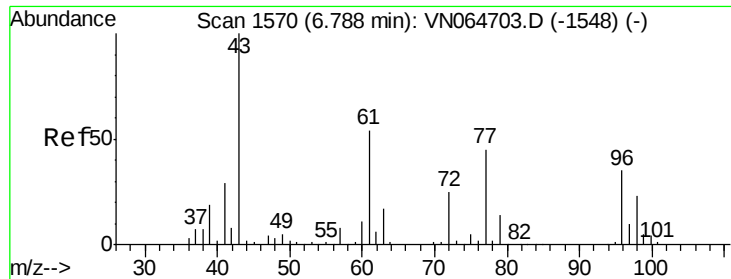
Tgt Ion: 73 Resp: 137972

Ion Ratio Lower Upper

73 100

57 22.0 17.3 25.9

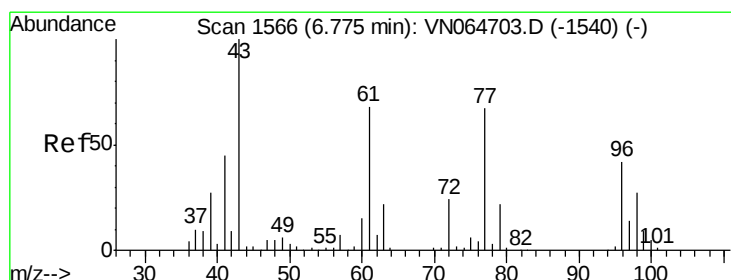
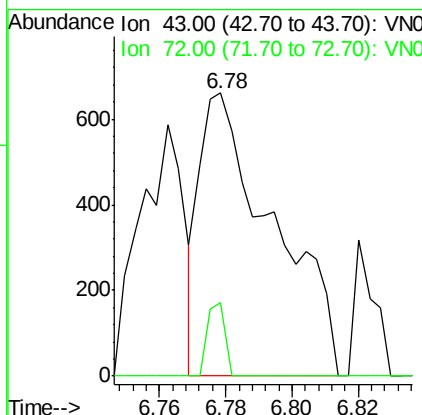
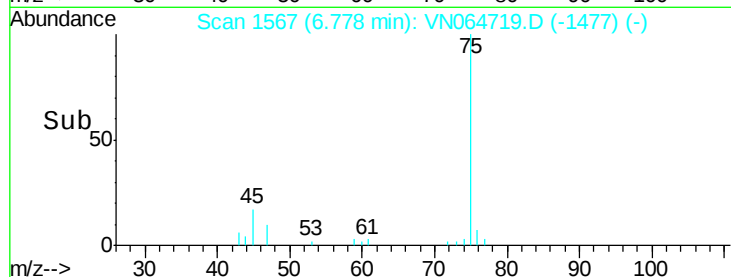
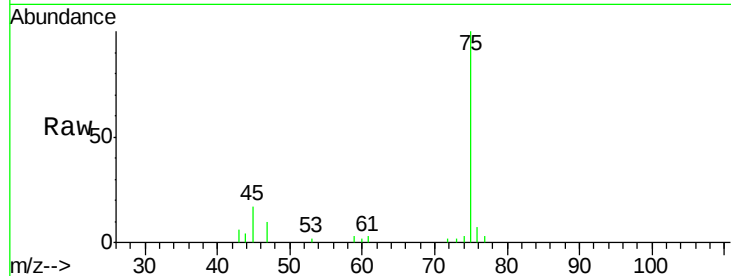




#25
 2-Butanone
 Concen: 0.710 ug/l
 RT: 6.78 min Scan# 1567
 Delta R.T. -0.01 min
 Lab File: VN064719.D
 Acq: 18 Nov 2020 20:12

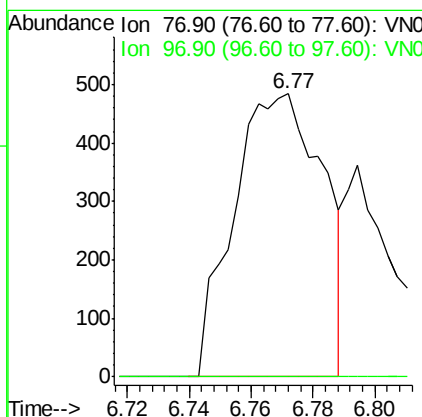
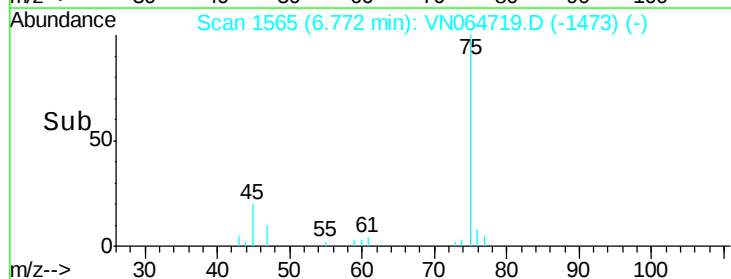
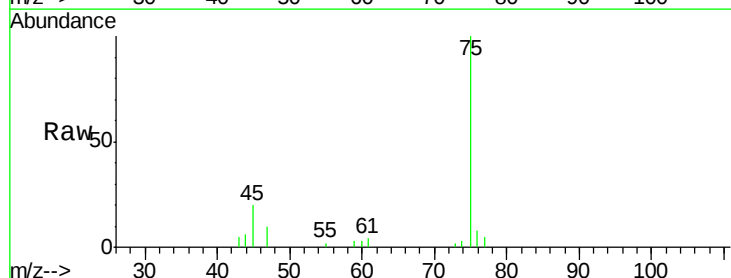
Instrument :
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 MW-1D

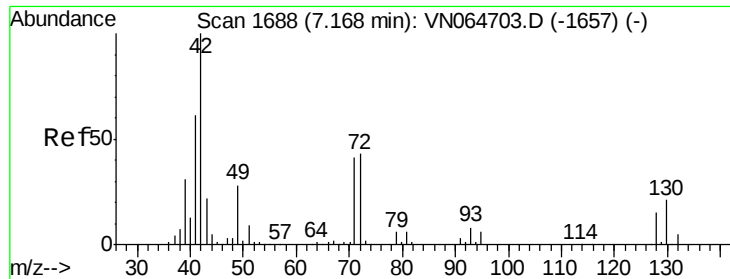
Tot Ion: 43 Resp: 1019
 Ion Ratio Lower Upper
 43 100
 72 26.0 19.7 29.5



#26
 2,2-Dichloropropane
 Concen: 0.209 ug/l
 RT: 6.77 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VN064719.D
 Acq: 18 Nov 2020 20:12

Tgt Ion: 77 Resp: 968
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.5 31.5#

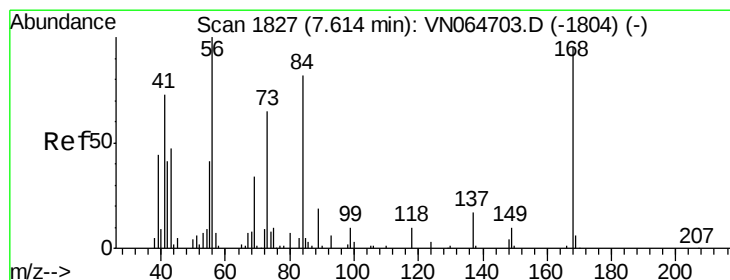
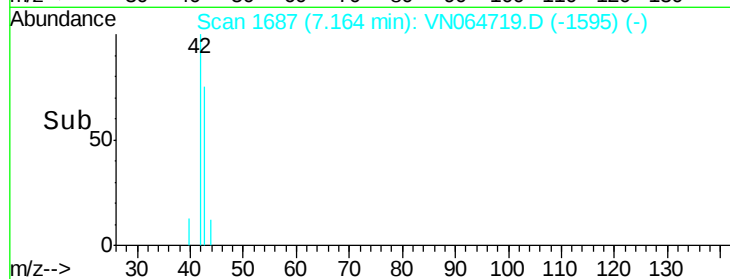
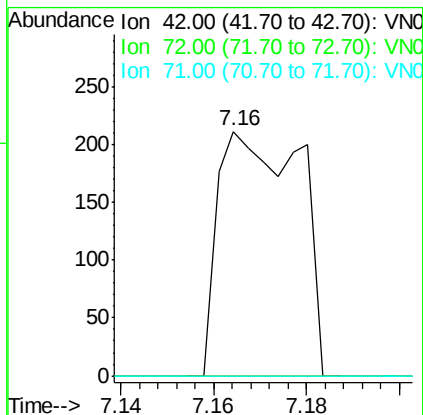
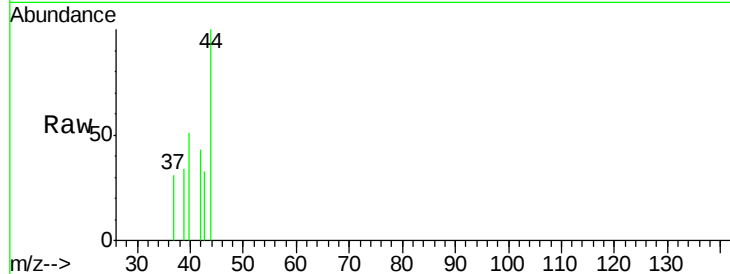




#29
Tetrahydrofuran
Concen: 0.265 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN064719.D
Acq: 18 Nov 2020 20:12

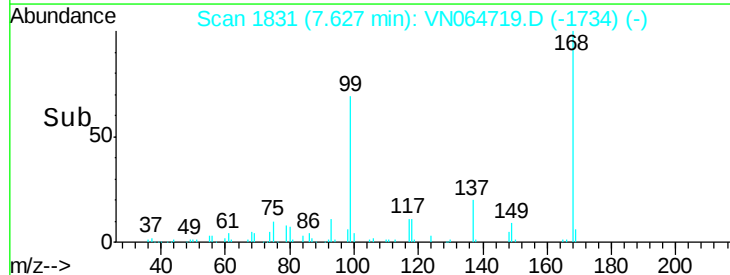
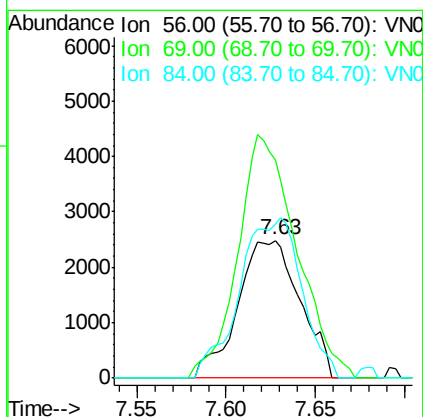
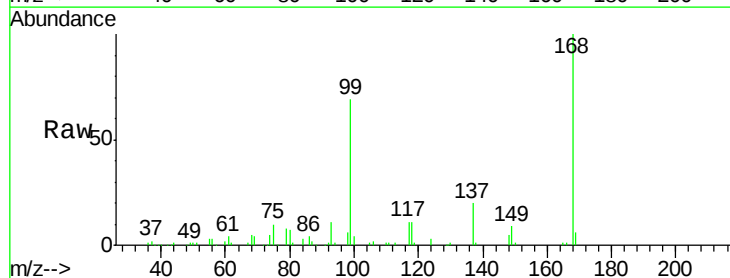
Instrument :
MSVOA_N
ClientSampleId :
MW-1D

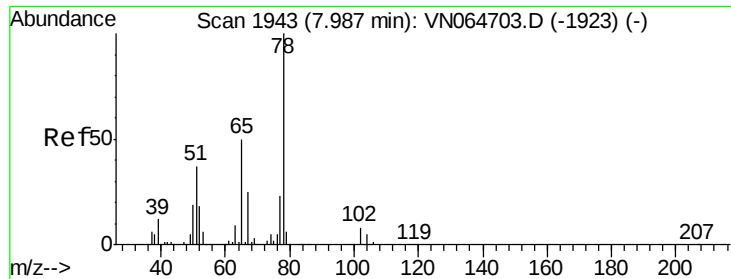
Tot Ion: 42 Resp: 257
Ion Ratio Lower Upper
42 100
72 0.0 33.0 49.4#
71 0.0 31.8 47.6#



#31
Cyclohexane
Concen: 1.487 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064719.D
Acq: 18 Nov 2020 20:12

Tgt Ion: 56 Resp: 6036
Ion Ratio Lower Upper
56 100
69 158.3 27.2 40.8#
84 111.9 65.9 98.9#

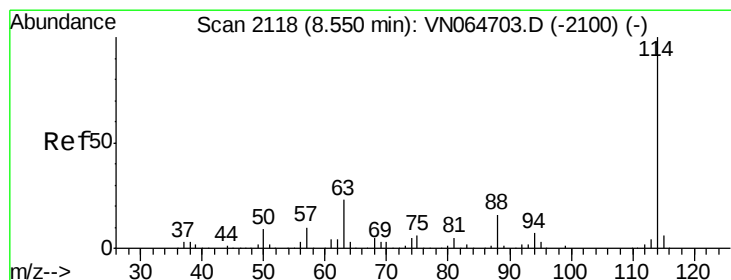
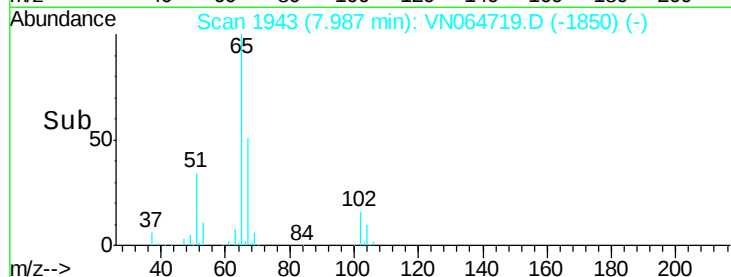
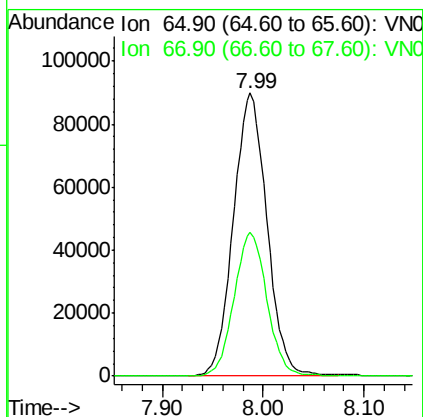
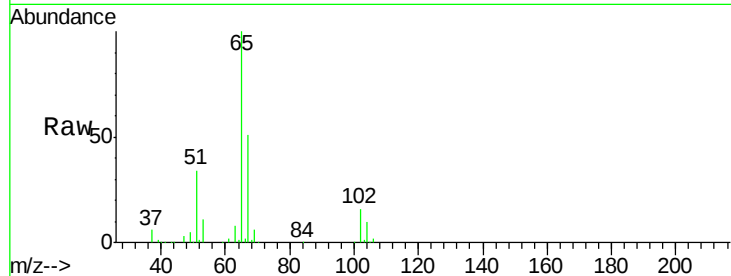




#33
 1,2-Dichloroethane-d4
 Concen: 55.244 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064719.D
 Acq: 18 Nov 2020 20:12

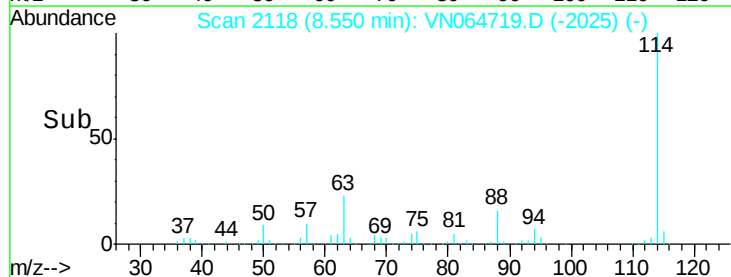
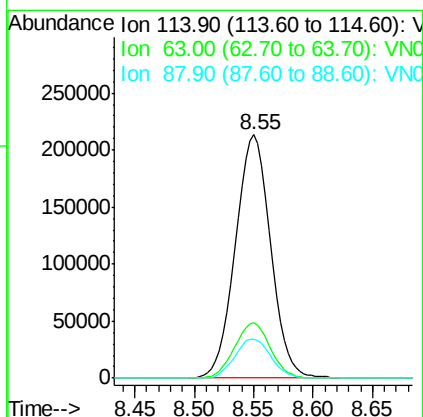
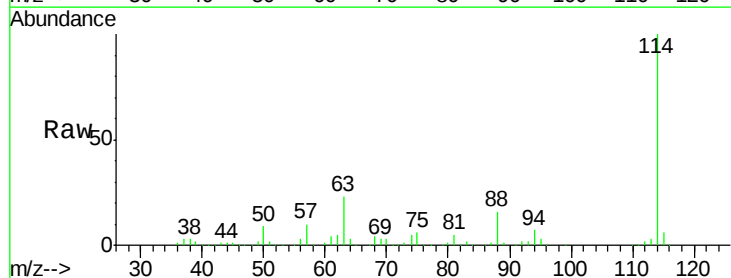
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1D

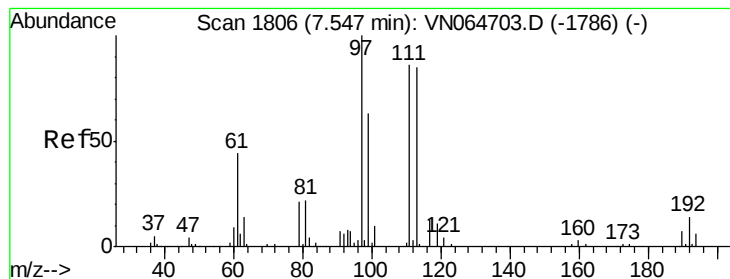
Tot Ion: 65 Resp: 207469
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064719.D
 Acq: 18 Nov 2020 20:12

Tgt Ion: 114 Resp: 438301
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 46.0
 88 16.0 0.0 31.2





#35

Dibromofluoromethane

Concen: 51.345 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

Instrument :

MSVOA_N

ClientSampleId :

MW-1D

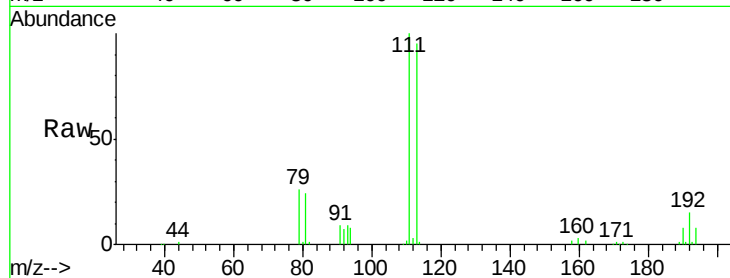
Tot Ion:113 Resp: 128089

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

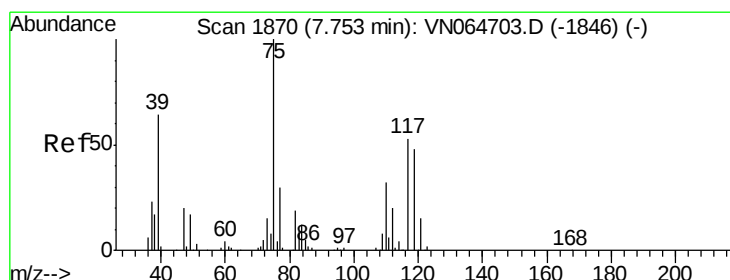
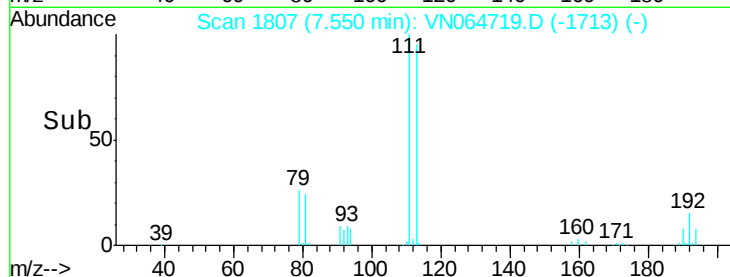
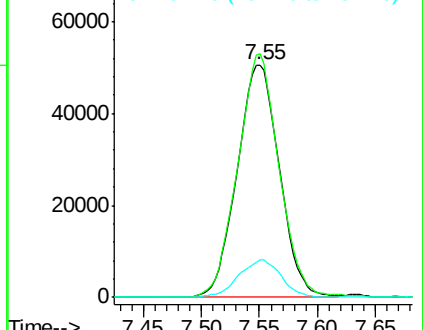
192 16.2 12.7 19.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.591 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

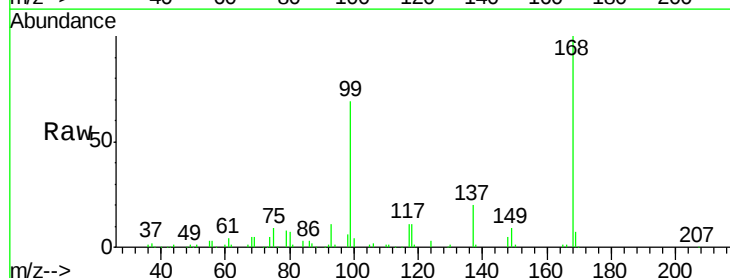
Tgt Ion: 75 Resp: 20700

Ion Ratio Lower Upper

75 100

110 6.6 16.2 48.6#

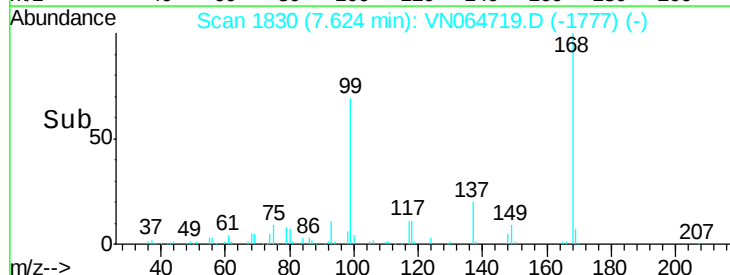
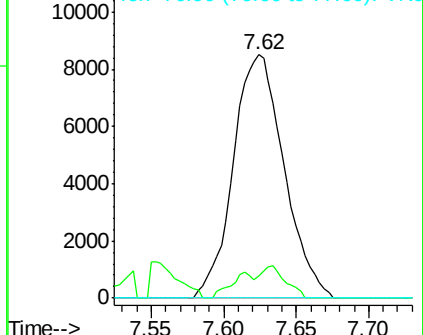
77 0.0 24.4 36.6#

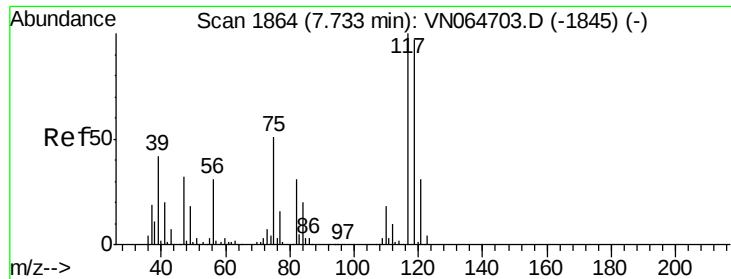


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 5.248 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

Instrument :

MSVOA_N

ClientSampled :

MW-1D

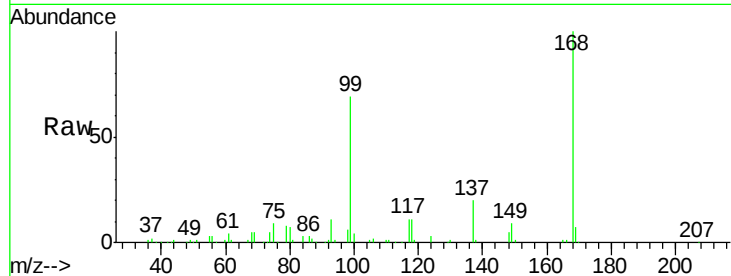
Tot Ion:117 Resp: 25151

Ion Ratio Lower Upper

117 100

119 5.6 77.8 116.6#

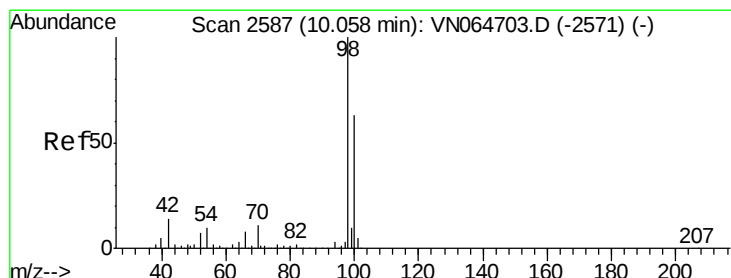
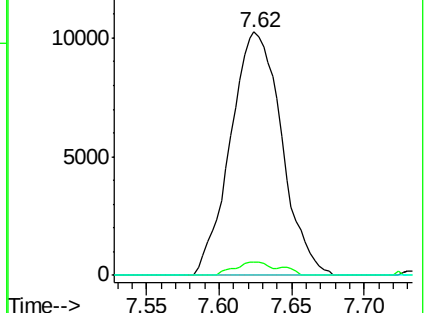
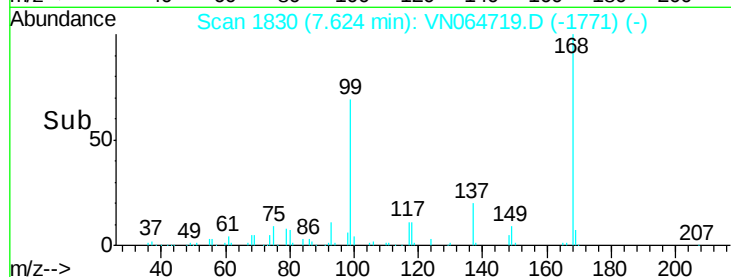
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 50.100 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064719.D

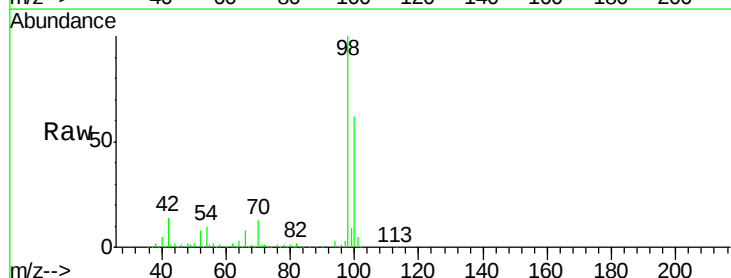
Acq: 18 Nov 2020 20:12

Tgt Ion: 98 Resp: 568032

Ion Ratio Lower Upper

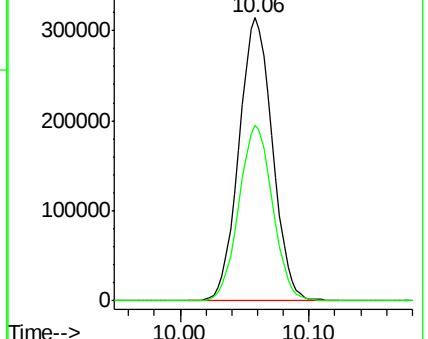
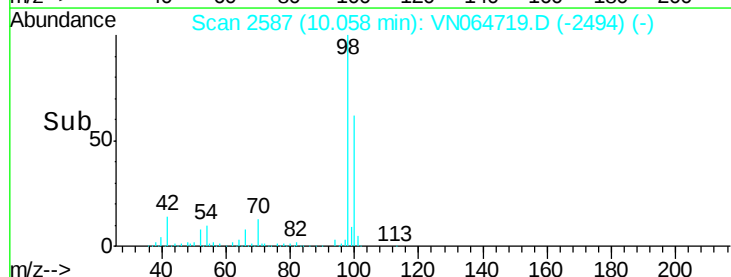
98 100

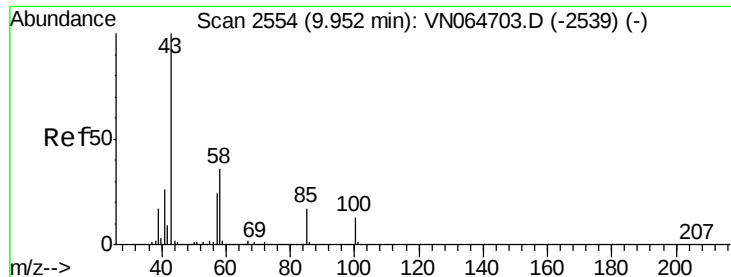
100 62.2 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 6.294 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

Instrument :

MSVOA_N

ClientSampleId :

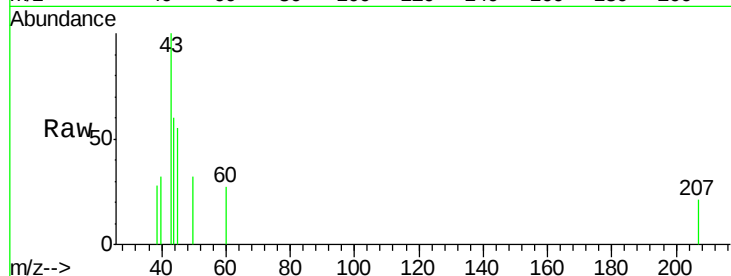
MW-1D

Tot Ion: 43 Resp: 746

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.95

800

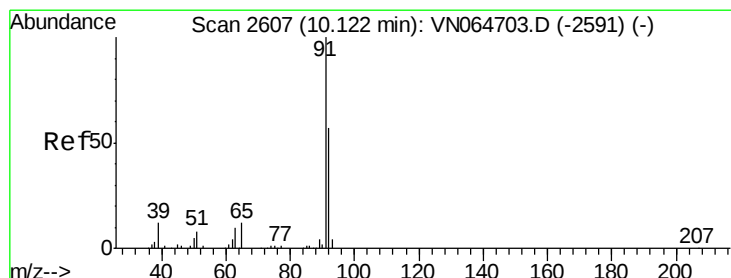
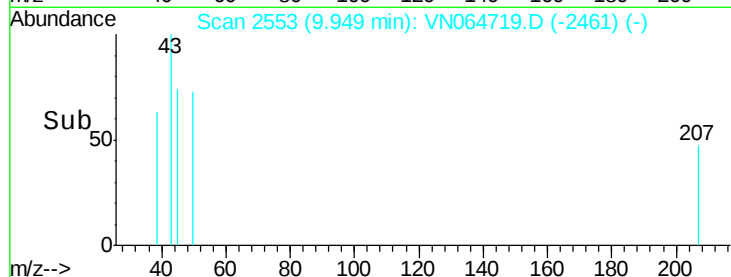
600

400

200

0

Time-->



#52

Toluene

Concen: 0.312 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN064719.D

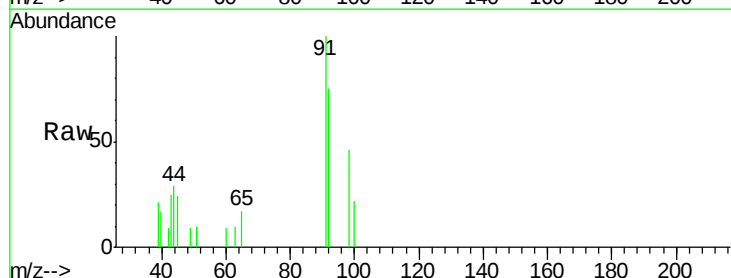
Acq: 18 Nov 2020 20:12

Tgt Ion: 92 Resp: 2418

Ion Ratio Lower Upper

92 100

91 164.7 141.2 211.8



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

2000

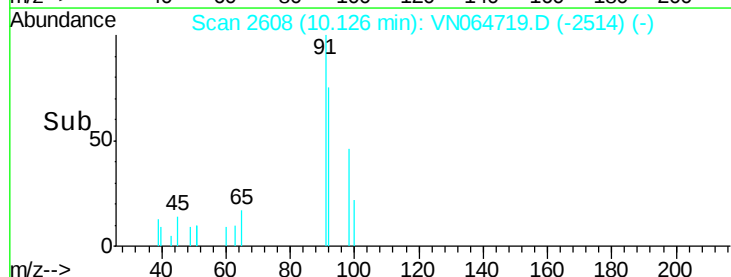
1500

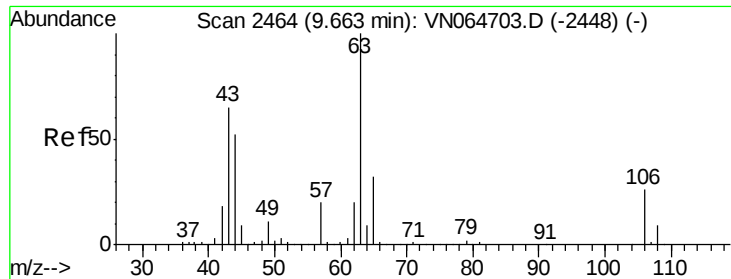
1000

500

0

Time-->

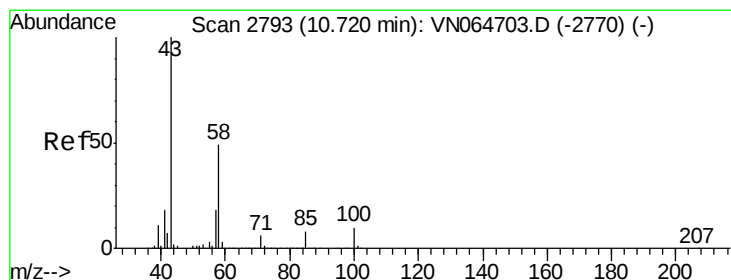
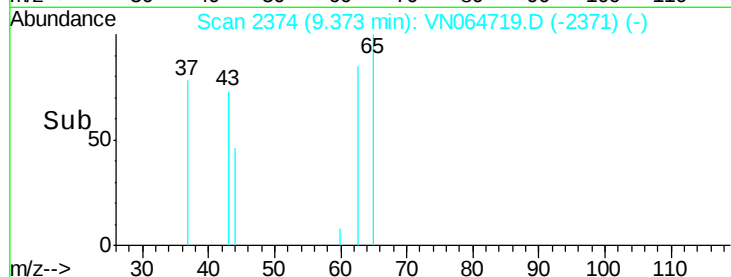
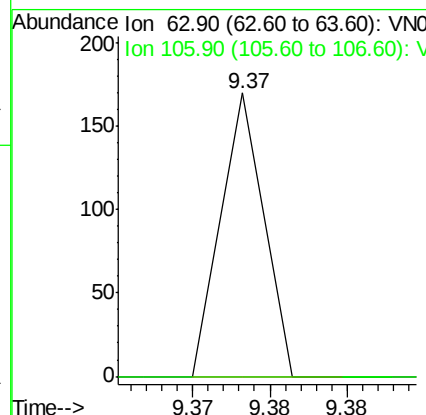
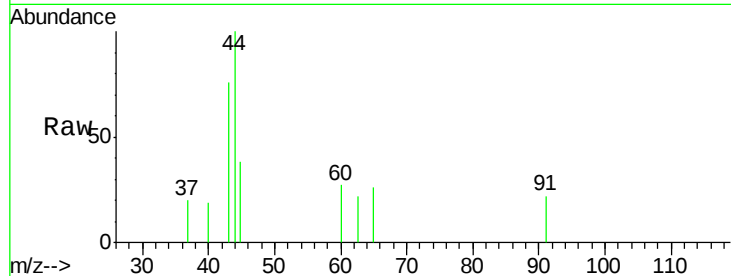




#58
 2-Chloroethyl Vinyl ether
 Concen: 13.283 ug/l
 RT: 9.37 min Scan# 2374
 Delta R.T. -0.29 min
 Lab File: VN064719.D
 Acq: 18 Nov 2020 20:12

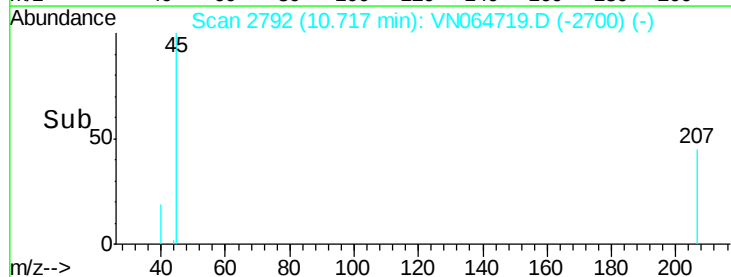
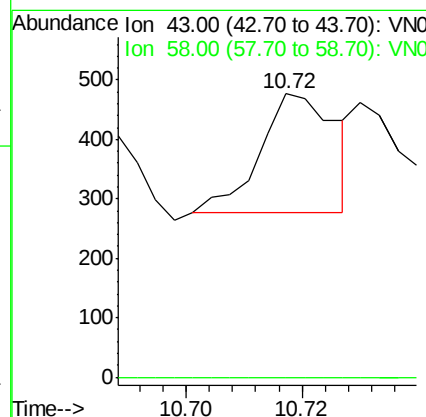
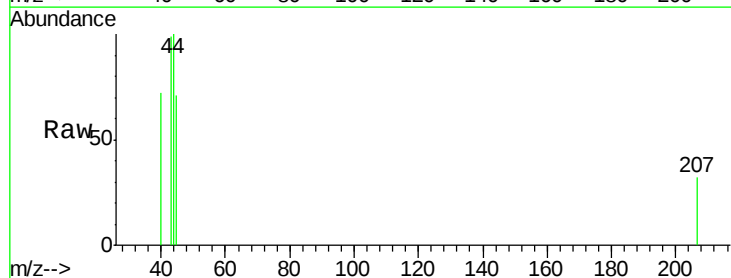
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1D

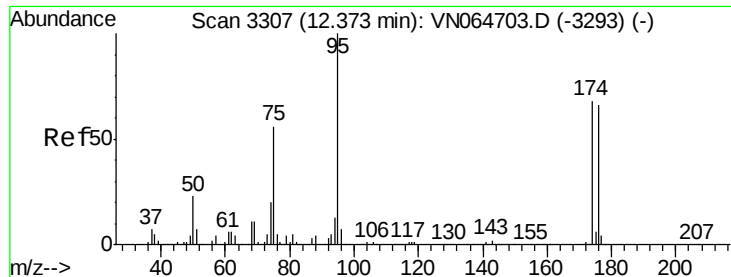
Tot Ion: 63 Resp: 33
 Ion Ratio Lower Upper
 63 100
 106 0.0 20.9 31.3#



#59
 2-Hexanone
 Concen: 8.494 ug/l
 RT: 10.72 min Scan# 2792
 Delta R.T. -0.00 min
 Lab File: VN064719.D
 Acq: 18 Nov 2020 20:12

Tgt Ion: 43 Resp: 184
 Ion Ratio Lower Upper
 43 100
 58 0.0 24.4 73.4#

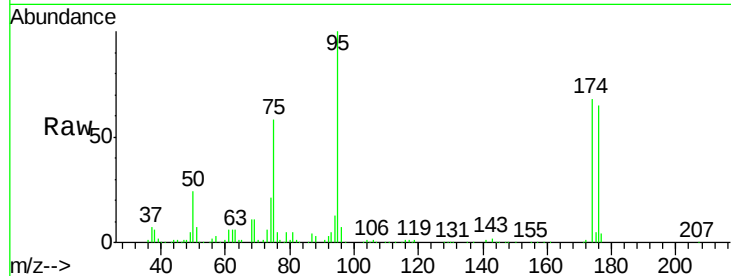




#62
4-Bromofluorobenzene
Concen: 54.771 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN064719.D
Acq: 18 Nov 2020 20:12

Instrument :
MSVOA_N
ClientSampleId :
MW-1D

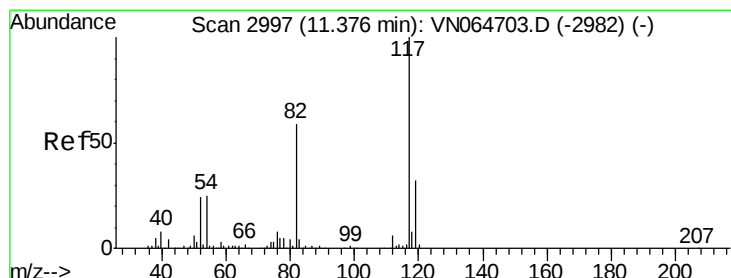
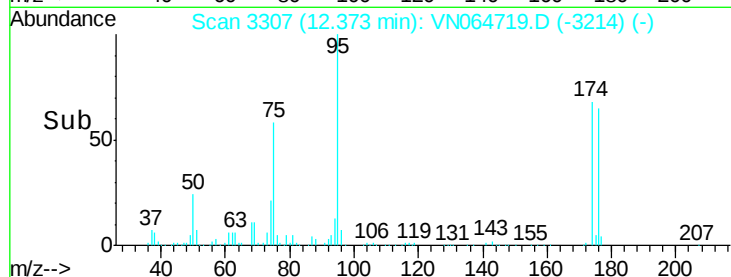
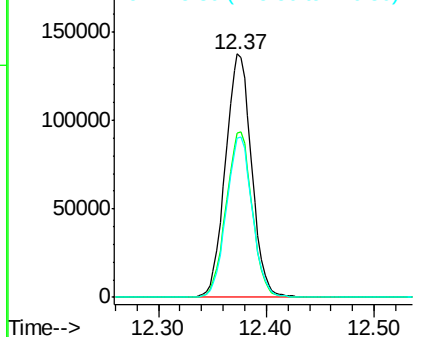
Tot Ion	Ratio	Lower	Upper
95	100		
174	67.6	0.0	136.8
176	65.2	0.0	134.2



Abundance Ion 94.90 (94.60 to 95.60): VN064703.D (-3293) (-)

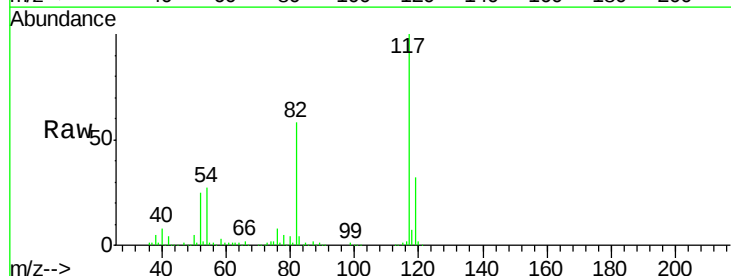
Ion 173.80 (173.50 to 174.50): VN064703.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064703.D (-3293) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064719.D
Acq: 18 Nov 2020 20:12

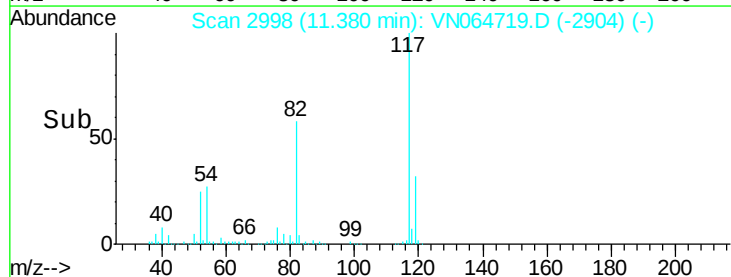
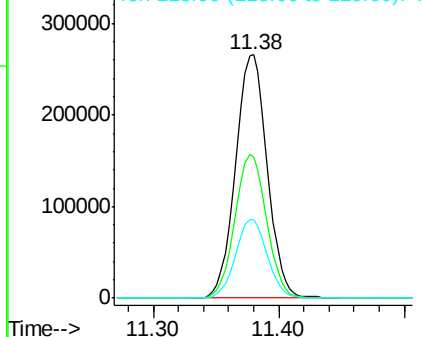
Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.0	47.0	70.6
119	32.1	25.4	38.2

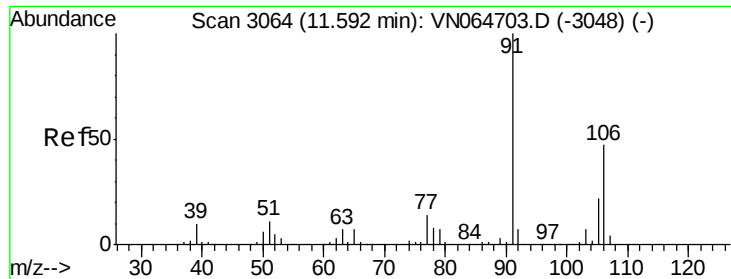


Abundance Ion 116.90 (116.60 to 117.60): VN064703.D (-2982) (-)

Ion 82.00 (81.70 to 82.70): VN064703.D (-2982) (-)

Ion 118.90 (118.60 to 119.60): VN064703.D (-2982) (-)

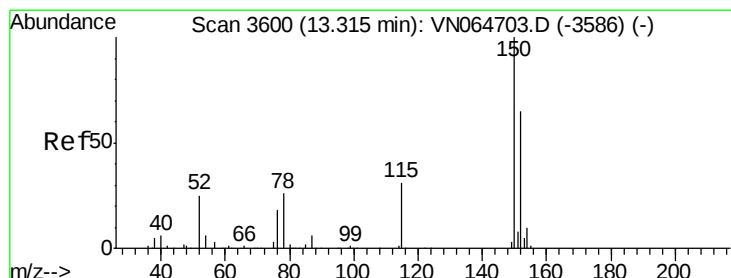
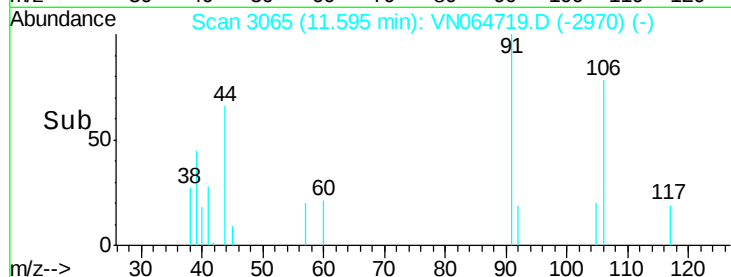
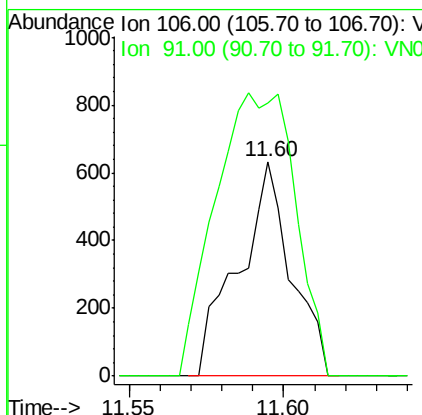
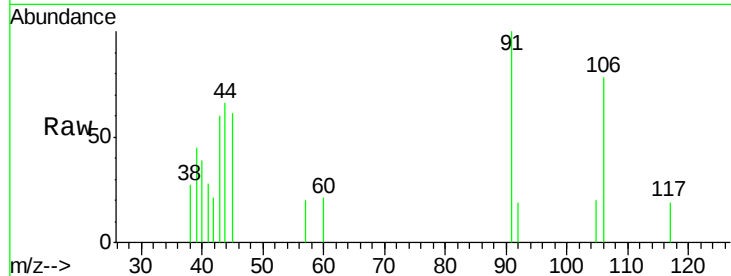




#68
m/p-Xvlenes
Concen: 4.164 ug/l
RT: 11.60 min Scan# 3065
Delta R.T. 0.00 min
Lab File: VN064719.D
Acq: 18 Nov 2020 20:12

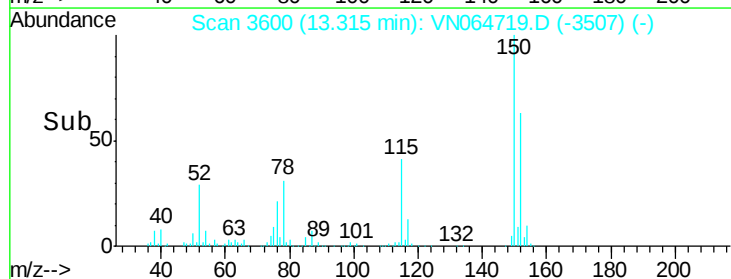
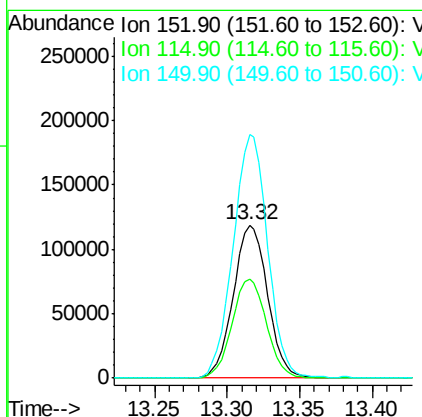
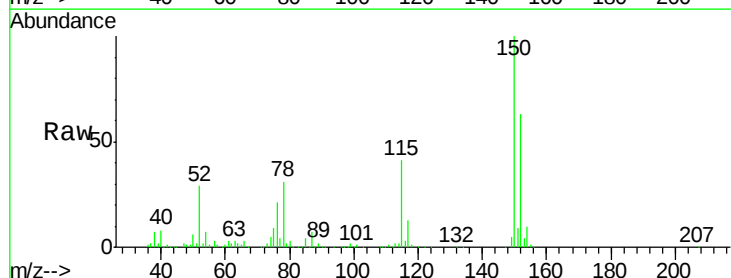
Instrument :
MSVOA_N
ClientSampled :
MW-1D

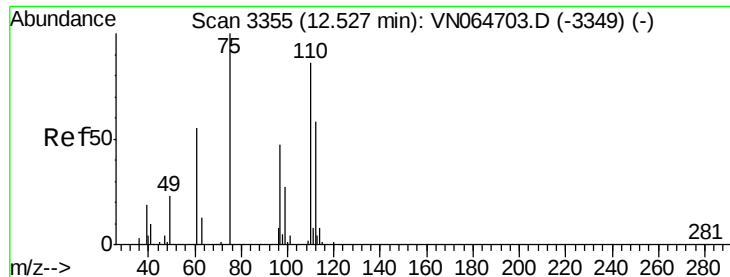
Tot Ion:106 Resp: 754
Ion Ratio Lower Upper
106 100
91 199.2 171.9 257.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN064719.D
Acq: 18 Nov 2020 20:12

Tgt Ion:152 Resp: 195318
Ion Ratio Lower Upper
152 100
115 64.9 32.1 96.3
150 160.0 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 32.347 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

Instrument :

MSVOA_N

ClientSampled :

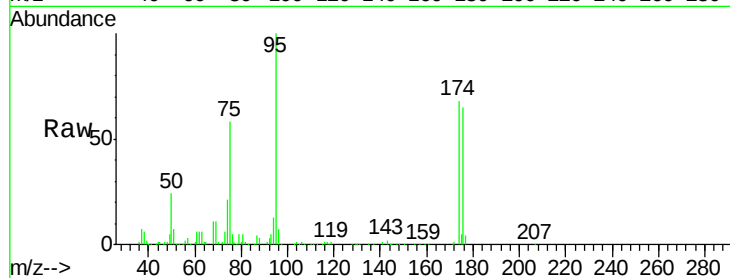
MW-1D

Tot Ion: 75 Resp: 136132

Ion Ratio Lower Upper

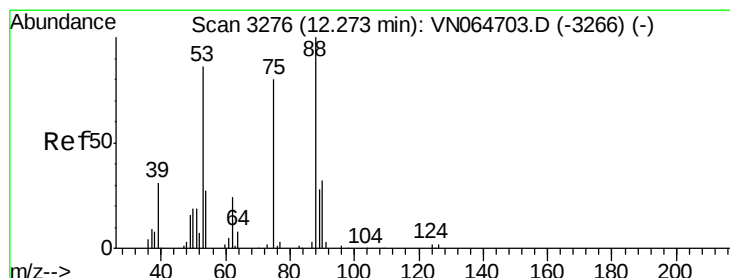
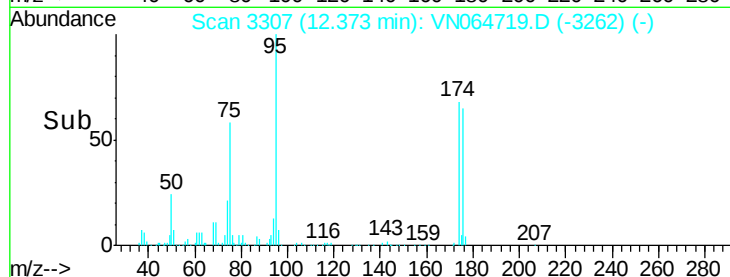
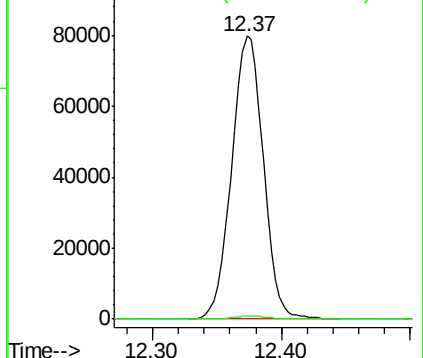
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 82.340 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064719.D

Acq: 18 Nov 2020 20:12

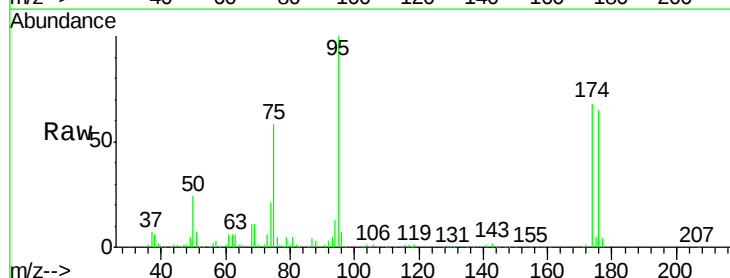
Tgt Ion: 75 Resp: 136132

Ion Ratio Lower Upper

75 100

53 0.1 88.8 133.2#

89 0.0 43.1 64.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

